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BOX: PATENT APPLICATION

SIR:

Transmitted herewith for filing is the patent application (including Specification, Claims, Sequence Listing (if applicable) and Abstract, 14 pages) of:

Inventor(s): Michelle Q. Wang Baldonado

For : SYSTEMS AND METHODS FOR THE DISCOVERY AND PRESENTATION OF ELECTRONIC MESSAGES THAT ARE RELATED TO AN ELECTRONIC MESSAGE

***If a CONTINUING APPLICATION, please mark where appropriate and supply the requisite information below and in a preliminary amendment:*

[] continuation [] divisional [] Continuation-In-Part (CIP)
of prior application Serial No. _____

Prior application information: Examiner :
Art Unit :

Enclosed are:

[X] 4 sheets of formal drawings.

[X] **Signed** Combined Declaration and Power of Attorney (2 pages).

[] **Copy of signed** Combined Declaration and Power of Attorney (pages) from a prior application (1.63(d) (for continuation/divisional)).

[] **Signed** statement deleting inventor(s) named in prior application (pages) (1.63(d)(2) and 1.33(b)).

[] **Incorporation By Reference:** The entire disclosure of the prior application, from which a **copy** of the oath or declaration is supplied herewith, is considered as being part of the disclosure of the enclosed application and is hereby incorporated by reference therein.

[X] Assignment (1 pages) of the invention to **Xerox Corporation**.

[X] Assignment Transmittal Letter.

[] Certified copy of a foreign priority document.

[] Associate power of attorney.

[] Applicant claims small entity status. (See 37 CFR 1.27.)

- [] Preliminary Amendment (____ pages).
- [X] Information Disclosure Statement, form PTO-1449 (1 pages) and 7 references.
- [] **UNSIGNED** Combined Declaration and Power of Attorney (____ pages).
- [] Statement in Accordance with 37 CFR § 1.821(f) and computer readable 3.5" Diskette.
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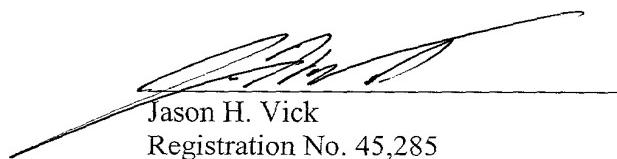
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INDEP CLAIMS	4- 3 =	1	x 40=	X80 =	\$ 80
[] MULTIPLE DEPENDENT CLAIM PRESENTED		x135 =	x270 =		
		TOTAL	TOTAL	\$808	

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**SYSTEMS AND METHODS FOR THE DISCOVERY AND PRESENTATION OF
ELECTRONIC MESSAGES THAT ARE RELATED TO AN ELECTRONIC
MESSAGE**

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BACKGROUND OF THE INVENTION

Field of the Invention

This invention relates to electronic messaging systems. In particular, this invention relates to locating and presenting messages that are conversationally related to an electronic message.

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Background of the Invention

Electronic messaging systems, such as an e-mail system or an electronic news system, allow one or more individuals to communicate with one another. In particular, a first individual will specify address information of the recipient(s) and then populate the body of the message with message content. The electronic message is then delivered to the recipient(s) for review. One or more of the recipients can then, for example, reply to the message, forward it to additional individuals, store the message, or the like. Thus, the number of e-mail messages can rapidly grow and conversations on the original topic can continue ad infinitum.

15

Alternatively, a recipient may not immediately respond to a received e-mail. For example, a recipient may read the e-mail, and then store it with the intention of replying at a later date. Then, at a later date, the recipient may generate a new e-mail back to the original sender. This new e-mail may, for example, include information pertinent to the original e-mail, plus, for example, supplemental conversationally related material. This e-mail is then returned to the original sender with the mutual understanding that a conversation on a particular topic had previously occurred and this e-mail was in response to, or supplemental to, the original e-mail message.

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SUMMARY OF THE INVENTION

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An e-mail message may represent a single event in a larger conversation and may be associated with a conversational history. However, unlike a typical face-to-face conversation, an e-mail conversation may likely take place in parallel with other conversations, and such e-mail conversations within a larger conversation are likely to be interspersed with many interruptions and distractions. Thus, the context and history of a

conversation are not always fresh in the participants' minds. As a consequence, authors of electronic messages often find it valuable during a message composition to consult previous messages exchanged with the other participants in the conversation.

A number of e-mail programs make it easy for an author to see the text of the message

- 5 to which they are replying. However, finding and viewing more distant messages from the conversation typically requires launching a search for those messages. Furthermore, searching is almost always necessary in cases where the author chooses to compose a new message rather than to reply to an earlier message. For example, Microsoft® Outlook® provides a facility for finding responses the user has already sent to a particular message.
- 10 Specifically, if message A arrives and the user sends a response B on January 1, 2000 at 10:00 a.m., then the next time the user views message A the following notice will be displayed: "You replied on January 1, 2000, 10:00 a.m.. Click here to find all related messages." Then, upon selecting the notice, a search is launched to retrieve messages with the same subject line in either the inbox, draft messages folder, or sent messages folder. For 15 many users, this extra searching step is not worth the effort when replying. If the author is composing a new message, there is an extra step of locating a message from the past conversational history before the search can even be launched. The result may be that communication misunderstandings, such as when a sender forgets or incorrectly recalls a previous aspect of the conversation, or even redundant messaging, such as when a sender forgets that a topic has already been covered, may occur.
- 20

The systems and methods of this invention nondisruptively provide the author of an electronic message with conversationally-related messages. Specifically, a background search for conversationally-related messages is made, and then the results of this search are automatically presented to the author. However, while these results are presented to the 25 author for review, the author is not required to view or otherwise interact with any of the retrieved related messages.

Aspects of the present invention relate to an electronic message management system comprising a related message determination device that determines one or more related electronic messages to a new electronic message. A message control device assembles the 30 one or more related electronic messages and a message display device nondisruptively displays a portion of the one or more related electronic messages.

Aspects of the present invention also relate to an electronic message management method comprising determining one or more related electronic messages to a new electronic

message. Next, the one or more related electronic messages are assembled and nondisruptively displayed.

Aspects of the present invention also relate to an information storage media comprising information that manages electronic messages. The information determines one or more related electronic messages to a new electronic message, assembles the one or more related electronic messages and nondisruptively displays a portion of the one or more related electronic messages.

Aspects of the present invention additionally relate to an electronic message management system comprising a data system for identifying data in electronic messages, the data system adapted to identify related electronic messages. A message control system associated with the data system is adapted to assemble the related electronic messages and an output device is adapted to nondisruptively communicate the related electronic messages.

The electronic message management systems and methods of this invention use a two operation process for nondisruptively searching and displaying conversationally-related messages. Specifically, the first operation involves finding messages having data that is conversationally related to a message in preparation. Secondly, the discovered messages are presented in a nondisruptive manner to the user. More particularly, the first operation involves detecting that a user is composing a new message and collecting pieces of information pertaining to that new message that will allow for conversationally-related messages to be discovered. For example, the destination address and the subject line could be particularly salient in discovering conversationally-related messages.

Next, the related messages must be found. This is accomplished by performing, for example, a background search over all saved electronic messages for any messages that were sent, for example, to the destination addressees, or were cc'd to the destination address, or, for example, that were received from the destination address. If the destination address is known to belong to a person with multiple addresses, the search may be, for example, extended to those addresses as well. Additionally, the search can discover items that have the same subject line as a message being composed. Furthermore, if a conversational thread includes many participants, the search can find related messages that may or may not be to or from the newly targeted recipient.

The second operation of the electronic message management system involves presenting the discovered items to the user in such a way as to be nondisruptive. One option is to assemble all of the found messages into a separate electronic message folder.

Alternatively, for example, the found electronic messages can be displayed in the periphery

of a display, or, for example, presented in a list of found items in a separate display, such as a graphical user interface. For each of these instances, the user is not distracted from the task at hand, i.e., composing an electronic message.

Additionally, the systems and methods of this invention can be used in conjunction
5 with co-pending Attorney Docket Nos. 1508.003170 entitled "Systems and Methods For
Performing Sender-Independent Managing of Electronic Documents" and 1508.003160
entitled "System and Method for Managing a Computer-Mediated Discussion Forum," filed
herewith and incorporated herein by reference in their entirety.

These and other features and advantages of this invention are described in or are
10 apparent from the following detailed description of the embodiments of the present invention.

BRIEF DESCRIPTION OF THE DRAWINGS

The embodiments of the invention will be described in detail, with reference to the
following figures wherein:

FIG. 1 is a functional block diagram illustrating an exemplary electronic message
15 management system according to this invention;

FIG. 2 is a screen shot of an exemplary user interface according to this invention;

FIG. 3 is a screen shot of an exemplary user interface according to this invention; and

FIG. 4 is a flowchart outlining an exemplary method for managing electronic
messages according to this invention.

DETAILED DESCRIPTION OF THE INVENTION

By combining determining related electronic messages and nondisruptively presenting
these messages to a user, a user is assisted with electronic message composition.

Furthermore, by presenting to a user related electronic messages during message
composition, a user is provided with background information that could allow for a richer and
25 more accurate electronic message.

A user initiates creation of an electronic message. Once a sufficient amount of
information regarding the created electronic message is present, a search is made for related
electronic messages. If related electronic messages are found, these related electronic
messages are grouped and displayed, for example in a unique user interface, in such a way as
30 to be nondisruptive to the user.

Then, for example, if the user desires to research previously exchanged related
messages, a user can select one or more of the related messages to review their content. A
user can then complete composition of the electronic message and forward the electronic
message to its intended recipients.

FIG. 1 illustrates an exemplary embodiment of an electronic message management system 100. The electronic message management system 100 comprises an I/O interface 110, a memory 120, a controller 130, an electronic message composition device 140, an electronic message storage device 150, a related message determination device 160, a 5 message control device 170 and a message display device 180, and all interconnected by link 5. The electronic message management system 100 is also connected to at least one distributed network 30 which may or may not also be connected to one or more other electronic message management systems and/or other distributed networks, as well as one or more input devices 10 and display devices 20 via link 5.

10 While the exemplary embodiment illustrated in FIG. 1 shows the electronic message management system 100 and associated components collocated, it is to be appreciated that the various components of the electronic message management system 100 can be located at distant portions of a distributed network, such as a local area network, a wide area network, an intranet and/or the internet, or within a dedicated electronic message management system. 15 Thus, it should be appreciated that the components of the electronic management system 100 can be combined into one device or collated on a particular node of a distributed network. As will be appreciated from the following description, and for reasons of computational efficiency, the components of the electronic message management system 100 can be arranged at any location within a distributed network without affecting the operation of the 20 system.

Furthermore, the links 5 can be a wired or a wireless link or any known or later developed element(s) that is capable of supplying or communicating electronic data to and from the connected elements.

25 In operation, the user, via input device 10, initiates the creation of an electronic message. This electronic message can be, for example, an e-mail message, a posting to an electronic bulletin board service, an annotation to a shared document, or the like, and combinations thereof. In general, the electronic message can be any document that relays information to one or more intended recipients.

30 The input device 10, which may be, for example, a keyboard, mouse, speech-to-text system, or the like, with the aid of the I/O interface 110, the memory 120 and the controller 130, interfaces with the electronic message composition device 140. The electronic message composition device 140 can be, for example, an e-mail system or comparable electronic message creation system.

For example, the electronic message composition device 140 can be an e-mail system and associated user interfaces. In this instance, a user could select, for example, a “Create New Mail” portion of a user interface that is shown on display device 20. Upon selection of the “Create New Mail” portion of the user interface with, for example, the click of a mouse, a 5 new user interface is created. This new user interface can include, for example, a “to” portion, a “subject” portion and a body portion.

As the new electronic message creation process progresses, information such as recipients, subject matter, or the like is entered into the user interface, and hence the 10 electronic message. When a predetermined amount of the information is present, the related message determination device 160 initiates a search of related electronic messages stored in the electronic message storage device 150. This search can be based on, for example, a statistical analysis, a comparison of messages, a keyword search, an address field search, a recipient search, a sender search, a subject field search, a location search, an e-mail address search, a date search, a recency search, or the like, and combinations thereof. In general, the 15 search can be configured by the user to search stored electronic messages for any criteria.

As each related message is discovered by the related message determination device 160, the message control device 170, with the cooperation of the electronic message storage device 150, assembles a list of the related messages. Then, with the cooperation of the message display device 180, and in cooperation with the controller 130, memory 120, the I/O 20 interface 110 and the display device 20, the message control device 170 groups and displays portions of the related electronic messages. Then, if during the composition of a new message a user desires to refer to a previously exchanged message, the user can select, for example, with a click of a mouse, one or more of the related electronic messages to view the entire message. For example, each related electronic message can be a hyperlink or other 25 association relating the displayed portion of the related electronic message to the entire message.

If a user desires to review related messages, upon completion of this review, the 30 electronic message being created can be completed and the electronic message composition device 140, with the aid of controller 130, the memory 120 and I/O interface 110, delivers via the links 5 and the distributed network 30, the electronic message to the intended recipients.

FIG. 2 illustrates a set of exemplary user interfaces that the electronic message management system 100 may display. In particular, the exemplary user interface 200 comprises an e-mail user interface 210, a message composition user interface 220 and an electronic message management system user interface 230. The electronic message

management system user interface 230 comprises a context selection portion 240, a search selection portion 250, a request digest selection portion 260, an edit digest rules portion 270, a result folder name portion 280 and a retrieve button 290.

The electronic message management system user interface 230 allows a user to
5 control the manner in which the electronic message management system 100 operates. In particular, the electronic message management system user interface 230 allows a user to specify the rules for determining relatedness of electronic messages, and to specify routing and/or display of these related electronic messages once found. In particular, the context selection portion 240 of the electronic message management system user interface 230 allows
10 a user to specify where the contextually related messages are to be placed or stored. The result folder name portion 280 of the electronic message management system user interface 230 specifies the location of, for example, a folder, directory, file path, user interface, or the like, where the conversationally related messages are to be placed and/or stored. The retrieve button 290 allows a user to manually search and/or retrieve the contextually related messages
15 stored at the destination location.

The search portion 250 allows, for example, the user to specify when the search is to be initiated, or, for example, which folders or sub-folders the search should encompass. For example, the user could specify that the search is to commence upon population of the address and subject fields. Alternatively, the user could specify, for example, that the “Inbox,” “Sent Mail” box and “Deleted Items” folders are to be searched for related documents.
20

The request digest portion 260 allows a user to specify that the results of the search are to be assembled into, for example, a digest. The composition and layout of the digest is governed by the digest rules which can be selectable and editable in the edit digest rules portion 270. For example, the digest rules may indicate, for example, a particular sort order
25 of the messages, or that the digest should be forwarded to a predetermined location, or the like.

FIG. 3 illustrates an exemplary user interface 300 that the electronic message management system 100 may display. The user interface 300 comprises an e-mail user interface 310, an e-mail creation portion 320 and a related electronic message user interface
30 330.

Thus, for example, a user could initially select the new button 350 to initiate creation of an electronic message. The e-mail creation portion user interface 320 would then be displayed. The e-mail creation portion user interface 320, as previously discussed, can include a “To” portion, a “Subject” portion and a body portion. Upon completion of one or

more of these categories, or based on some other search criteria, the electronic message management system 100 commences determination of related electronic messages. The discovered related electronic messages are then displayed in the related electronic message user interface 330 as related electronic messages 340. Each of the related electronic 5 messages 340 is then individually selectable to view, for example, the entirety of the related electronic message.

FIG. 4 illustrates an exemplary embodiment of the operation of the electronic message management system in accordance to this invention. In particular, control begins at S100 and continues to S110. In S110, the electronic message creation is initiated. Next, in 10 S120, the electronic messages related to the electronic message being created are determined. Then, in S130, a determination is made whether related electronic messages have been found. If related electronic messages have been found, control continues to S140. Otherwise, control jumps to S170.

In S140, the related electronic messages are grouped and displayed. Next, in S150, a 15 determination is made whether one or more of the related electronic messages have been selected. If one or more of the related electronic messages have been selected, control continues to S160. Otherwise, control jumps to S170.

In S160, the related electronic messages are displayed. Control then continues to S170.

20 In S170, the creation of the electronic message is completed and the electronic message is forwarded to one or more recipients. Control then continues to S180 where the control sequence ends.

As illustrated in FIGS. 1-3, the electronic message management system can be implemented either on a single program general purpose computer, or a separate program 25 general purpose computer. However, the electronic message management system can also be implemented on a special purpose computer, a programmed microprocessor or microcontroller and peripheral integrated circuit element, an ASIC or other integrated circuit, a digital signal processor, a hard wired electronic or logic circuit such as a discrete element circuit, a programmable logic device such as a PLD, PLA, FPGA, PAL, or the like. In general, any device capable of implementing a finite state machine that is in turn capable of 30 implementing the flowchart illustrated in FIG. 4 can be used to implement the electronic message management system according to this invention.

Furthermore, the disclosed method may be readily implemented in software using object or object-oriented software development environments that provide portable source

code that can be used on a variety of computer or workstation hardware platforms. Alternatively, the disclosed electronic message management system may be implemented partially or fully in hardware using standard logic circuits or VLSI design. Whether software or hardware is used to implement the systems in accordance with this invention is dependent
5 on the speed and/or efficiency requirements of the system, the particular function, and the particular software or hardware systems or microprocessor or microcomputer systems being utilized. The electronic message management systems and methods illustrated herein, however, can be readily implemented in hardware and/or software using any known or later-developed systems or structures, devices and/or software by those of ordinary skill in the
10 applicable art from the functional description provided herein and a general basic knowledge of the computer arts.

Moreover, the disclosed methods may be readily implemented as software executed on a programmed general purpose computer, a special purpose computer, a microprocessor, or the like. In these instances, the methods and systems of this invention can be implemented
15 as a program embedded on a personal computer such as a Java® or CGI script, as a resource residing on a server or graphics workstation, as a routine embedded in a dedicated electronic message management system, a web browser, an electronic message enabled cellular phone, a PDA, a dedicated electronic message management system, or the like. The electronic message management system can also be implemented by physically incorporating the
20 system and method into a software and/or hardware system, such as the hardware and software systems of a dedicated electronic message management system.

For example, in an exemplary embodiment, the methods have been used in a Visual Basic® program that controls an off the shelf e-mail program. The electronic message management system of this exemplary embodiment detects when a user is issuing a reply to a
25 message, which could be generalized to detect even when a user is composing any message, and then gathers the address and subject line information from that message. A background search is then conducted. The query used in the search is a Boolean OR with the following constraints: the existence of the recipients' names in any of the available address fields, the existence of the recipients' e-mail addresses in any available address fields, and the existence
30 of the subject line in the subject field. Additionally, the electronic message management system functionality may be invoked explicitly by the user for any archived message. In this instance, the search takes place incrementally and results appear incrementally in, for example, a separate window. However, the user is not required to examine the contents of the separate window during message composition.

It is, therefore, apparent that there has been provided, in accordance with the present invention, systems and methods for electronic message management. While this invention has been described in conjunction with a number of embodiments thereof, it is evident that many alternatives, modifications and variations would be or are apparent to those of ordinary skill in the applicable arts. Accordingly, it is intended to embrace all such alternatives, modifications, equivalents and variations that are within the spirit and scope of this invention.

What is Claimed is:

1. An electronic message management system comprising:
a related message determination device that determines one or more related
electronic messages to a new electronic message;

5 a message control device that assembles the one or more related electronic
messages; and

a message display device that nondisruptively displays a portion of the one or
more related electronic messages.

2. The system of claim 1, further comprising an electronic message composition
10 device that allows a user to at least one of create or update the new electronic message.

3. The system of claim 2, wherein the related message determination device
automatically determines the one or more related electronic messages after commencement of
the creating or updating of the new electronic message.

4. The system of claim 1, wherein upon selection of a portion of one of the one
15 or more related messages, the related message is displayed.

5. The system of claim 1, wherein the related message determination is based on
at least one of: a statistical analysis; a comparison of the new electronic message to at least
one of the one or more related electronic messages; a keyword search; an address field
search; a recipient search; a sender search; a subject field search; a date search; and a recency
20 search.

6. The system of claim 1, wherein the one or more related electronic messages
are at least one of: displayed in a new user interface; assembled into a digest; and stored.

7. An electronic message management method comprising:
determining one or more related electronic messages to a new electronic

25 message;
assembling the one or more related electronic messages; and
nondisruptively displaying a portion of the one or more related electronic
messages.

8. The method of claim 7, further comprising creating or updating the new
30 electronic message.

9. The method of claim 8, wherein determining the one or more related
electronic messages automatically occurs after commencement of creating or updating of the
new electronic message.

10. The method of claim 7, wherein upon selection of a portion of one of the one or more related messages, the related message is displayed.

11. The method of claim 7, wherein the related message determination is based on at least one of: a statistical analysis; a comparison of the new message to at least one of the 5 one or more related electronic messages; a keyword search; an address field search; a recipient search; a sender search; a subject field search; a date search; and a recency search.

12. The method of claim 7, wherein the one or more related electronic messages are at least one of: displayed in a new user interface; assembled into a digest; and stored.

13. An information storage media comprising information that manages electronic 10 messages comprising:

information that determines one or more related electronic messages to a new electronic message;

information that assembles the one or more related electronic messages; and

15 information that nondisruptively displays a portion of the one or more related electronic messages.

14. The information storage media of claim 13, further comprising information that creates or updates the new electronic message.

15. The information storage media of claim 14, wherein determining the one or more related electronic messages automatically occurs after commencement of the creating or 20 updating of the new electronic message.

16. The information storage media of claim 13, wherein upon selection of a portion of one of the one or more related messages, the related message is displayed.

17. The information storage media of claim 13, wherein the related message determination is based on at least one of: a statistical analysis; a comparison of the new 25 electronic message and at least one of the one or more related electronic messages; a keyword search; an address field search; a recipient search; a sender search; a subject field search; a date search; and a recency search.

18. The information storage media of claim 13, wherein the one or more related electronic messages are at least one of: displayed in a new user interface; assembled into a 30 digest; and stored.

19. An electronic message management system comprising:

a data system for identifying data in electronic messages, the data system adapted to identify related electronic messages;

a message control system associated with the data system, the message control system adapted to assemble the related electronic messages; and

an output device adapted to nondisruptively communicate the related electronic messages.

5 20. The electronic message management system of claim 19 wherein the data system further includes a rule and the data system identifies related electronic messages according to the rule.

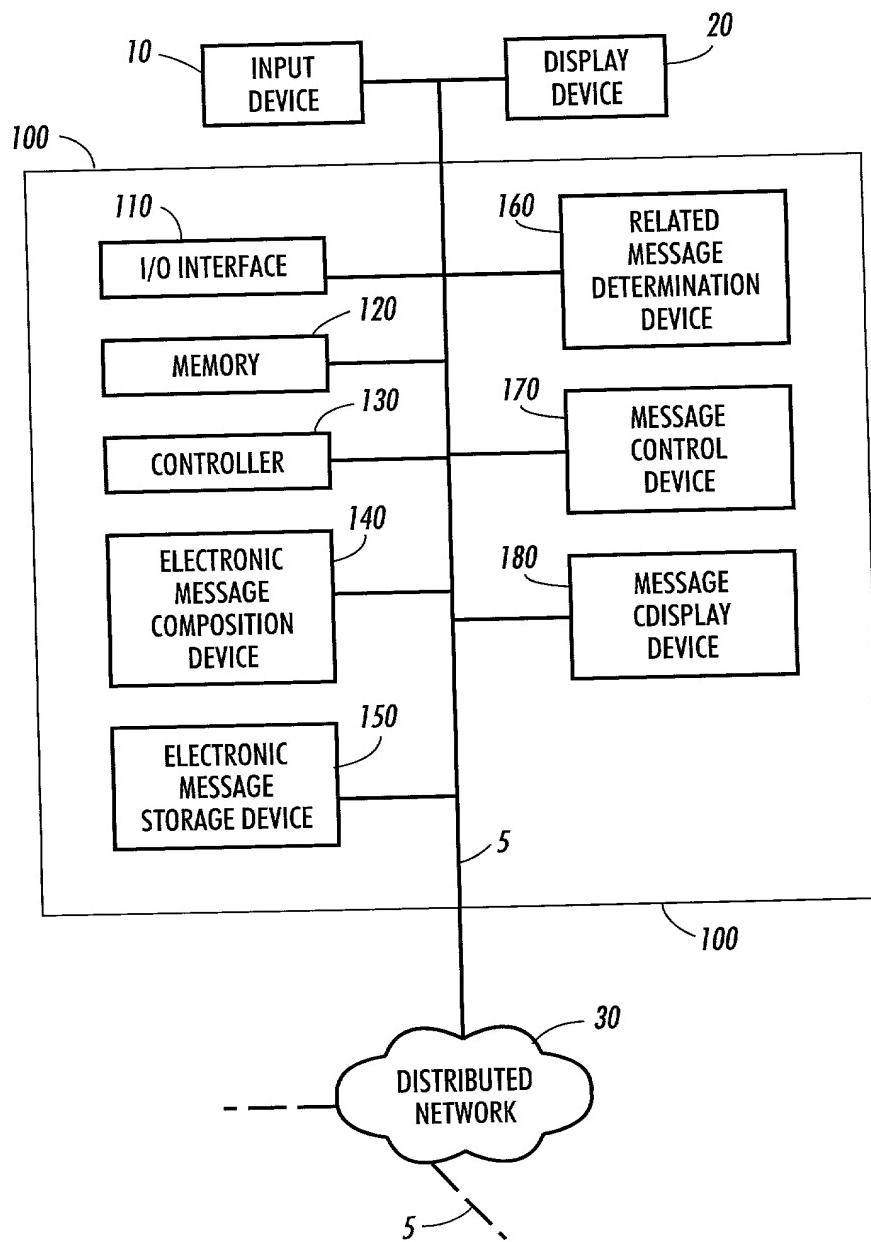
21. The electronic message management system of claim 19 wherein the output device communicates in at least one of a human readable and computer readable format.

10

9000 8000 7000 6000 5000 4000 3000 2000 1000

ABSTRACT OF THE DISCLOSURE

The systems and methods of this invention nondisruptively provide the author of an electronic message with conversationally-related messages. Initially, a background search for conversationally-related messages is performed. Next, the conversationally-related messages are made available for viewing by the author. The conversationally-related messages can be displayed in such a way that the author is not required to view any of the related messages during the composition of the new message.

**FIG. 1**

2/4

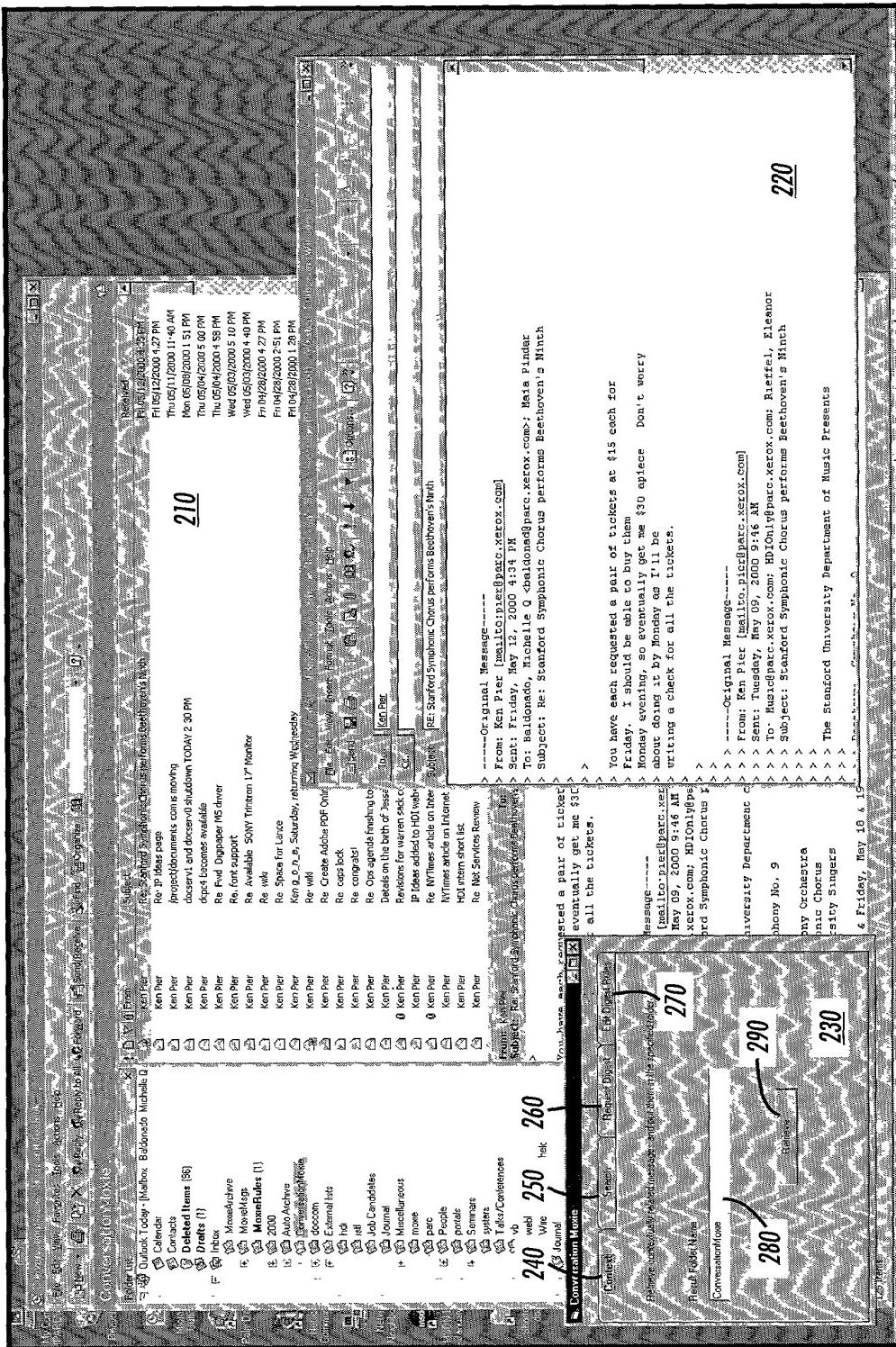


FIG. 2

With such strong winds as those we had to face it was hard going.

5

210

300

3
FIG.

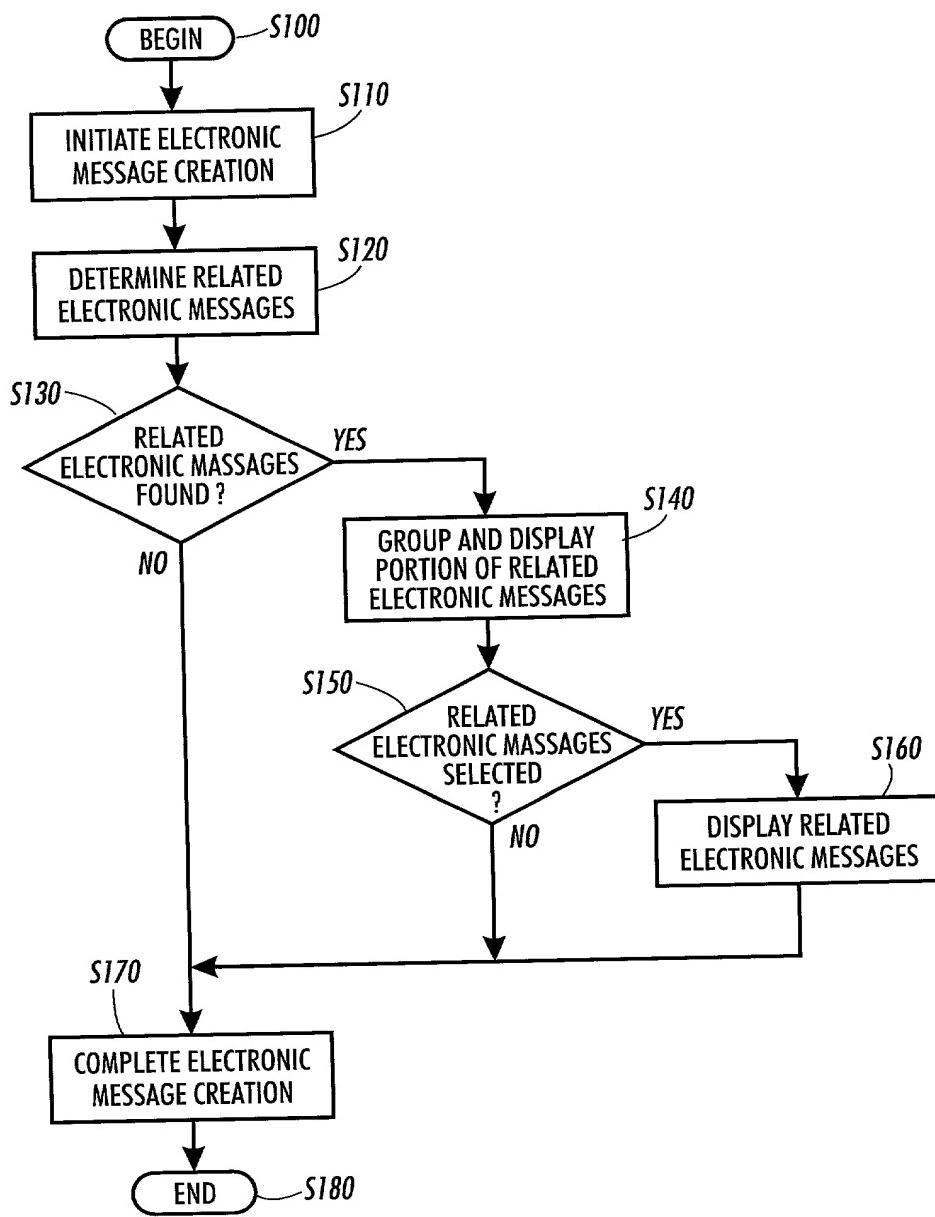


FIG. 4

PATENT APPLICATION

Attorney Docket No. 1508.3180
D/A0835

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original; first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **SYSTEMS AND METHODS FOR THE DISCOVERY AND PRESENTATION OF ELECTRONIC MESSAGES THAT ARE RELATED TO AN ELECTRONIC MESSAGE**

the specification and claims of which

are attached hereto OR was filed on _____ as U.S. Application No. _____

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims.

I acknowledge the duty to disclose information which is material to the patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim priority benefits under Title 35, United States Code, §119 of any foreign or U.S. Provisional application(s) for patent listed below, and have also identified below any foreign application(s) or Provisional application(s) for patent having a filing date before that of the application on which priority is claimed:

Prior Foreign or U.S. Provisional Application(s)

(Number)	(Country)	(Day/Month/Year Filed)
----------	-----------	------------------------

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following registered practitioners to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

DECLARATION AND POWER OF ATTORNEY, continued

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